

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-25. (Canceled).

26. (Currently Amended) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a MegL and/or a MegM polyketide modifying enzyme, and wherein said nucleic acid optionally comprises a polyketide modifying gene encoding a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBVI, and MegBIII, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1, MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence encoded by nucleotides 14908-15972 of SEQ ID NO:1, and MegM has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1, and wherein the[[The]] nucleic acid of claim 25 that does not comprise the *S. erythraea* Meg CII gene (nucleotides 6962-8038 of SEQ ID NO:1).

27. (Currently Amended) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a MegL and/or a MegM polyketide modifying enzyme, and wherein said nucleic acid optionally comprises a polyketide modifying gene encoding a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBVI, and MegBIII, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1, MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence

encoded by nucleotides 14908-15972 of SEQ ID NO:1, and MegM has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1, and wherein the~~[[The]]~~ nucleic acid of claim 25 that  
does not comprise the *S. erythraea* MegBIII gene (nucleotides 12316-13548 of SEQ ID NO:1).

28-31. (Canceled)

32. (Currently Amended) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBVI, MegBIII, MegL, and MegM, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1, MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence encoded by nucleotides 14908-15972 of SEQ ID NO:1, and MegM has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1, and wherein the~~[[The]]~~ nucleic acid of Claim 1, which ~~does not~~  
comprise a gene encoding MegY or a gene encoding MegCII.